

Title (en)

METHOD FOR SCREENING PEPTIDES FOR USE IN IMMUNOTHERAPY

Title (de)

VERFAHREN ZUM AUFFINDEN VON PEPTIDEN ZUR VERWENDUNG IN DER IMMUNOTHERAPIE

Title (fr)

PROCEDE DE CRIBLAGE DE PEPTIDES UTILISABLES EN IMMUNOTHERAPIE

Publication

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Application

**EP 01956629 A 20010720**

Priority

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Abstract (en)

[origin: WO0208716A2] The invention concerns a method for identifying sub-dominant/cryptic epitopes exhibited by a class I HLA molecule, said method comprising at least the following steps: a) selecting, from the sequence of a protein with respect to which it is desired to induce a cytotoxic T lymphocyte response, at least a peptide sequence of 8 to 11 amino acids capable of constituting an epitope of said protein exhibited by a class I HLA molecule, and corresponding to a peptide with low affinity for said class I HLA molecule and non-immunogenic; b) preparing, for each selected sequence, a variant peptide derived from said sequence, by substituting the N-terminal amino acid with a tyrosine residue; c) determining the immunogenicity of each variant peptide obtained at step b) by selecting, among the latter, each immunogenic peptide, generating a CTL response specific to the target cells expressing the protein wherefrom it is derived and identifying the peptide sequence wherefrom said immunogenic peptide is derived. The invention is applicable to screening of peptides for use in immunotherapy.

IPC 8 full level

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Citation (examination)

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